

A. Wang

RE-1112

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RAW SEQUENCE LISTING
PATENT APPLICATION US/08/936,657

DATE: 02/02/2000
TIME: 16:00:12

INPUT SET: S30066.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

Handwritten Signature

1 SEQUENCE LISTING
2

3 (1) General Information:

ENTERED

4
5 (i) APPLICANT: Fritz Eckstein
6 Wolfgang Pieken
7 Fritz Benseler
8 David Olsen
9 David Williams
10

11
12
13 (ii) TITLE OF INVENTION: MODIFIED RIBOZYMES
14

15 (iii) NUMBER OF SEQUENCES: 15
16

17 (iv) CORRESPONDENCE ADDRESS:
18

19
20 (A) ADDRESSEE: Lyon & Lyon
21 (B) STREET: 633 West Fifth Street
22 Suite 4700
23 (C) CITY: Los Angeles
24 (D) STATE: California
25 (E) COUNTRY: U.S.A.
26 (F) ZIP: 90071
27

28 (v) COMPUTER READABLE FORM:
29

30
31 (A) MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
32 storage
33 (B) COMPUTER: IBM Compatible
34 (C) OPERATING SYSTEM: IBM P.C. DOS 5.0
35 (D) SOFTWARE: FastSEQ Version 1.5
36

37 (vi) CURRENT APPLICATION DATA:
38

39 (A) APPLICATION NUMBER: 08/936,657
40 (B) FILING DATE:
41

42 (vii) PRIOR APPLICATION DATA:
43

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47
48 (A) APPLICATION NUMBER: 07/965,411
49 (B) FILING DATE: August 9, 1993
50

51
52 (viii) ATTORNEY/AGENT INFORMATION:

53
54 (A) NAME: Warburg, Richard
55 (B) REGISTRATION NUMBER: 32,327
56 (C) REFERENCE/DOCKET NUMBER: 195/036
57

58
59 (ix) TELECOMMUNICATION INFORMATION:

60
61 (A) TELEPHONE: (213) 489-1600
62 (B) TELEFAX: (213) 955-0440
63 (C) TELEX: 67-3510
64

65
66
67
68
69 (2) INFORMATION FOR SEQ ID NO: 1:70
71 (i) SEQUENCE CHARACTERISTICS:

72
73 (A) LENGTH: 32
74 (B) TYPE: nucleic acid
75 (C) STRANDEDNESS: single
76 (D) TOPOLOGY: linear
77

78 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

79
80 GATATCCTGA CTCCCTATAG TGAGTCGTAT TA 32
81
82
83
84

85 (2) INFORMATION FOR SEQ ID NO: 2:

86
87 (i) SEQUENCE CHARACTERISTICS:

88
89 (A) LENGTH: 36
90 (B) TYPE: nucleic acid
91 (C) STRANDEDNESS: single
92 (D) TOPOLOGY: linear
93

94 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

95
96 TAATACGACT CACTATAGGG AGTCAGGATA TCTGCA 36
97
98
99

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100
101 (2) INFORMATION FOR SEQ ID NO: 3:
102
103 (i) SEQUENCE CHARACTERISTICS:
104
105 (A) LENGTH: 51
106 (B) TYPE: nucleic acid
107 (C) STRANDEDNESS: single
108 (D) TOPOLOGY: linear
109
110 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
111
112 GGAGTTTCGG CCTAACGGCC TCATCAGAGG ACCCTATAGT GAGTCGTATT A 51
113
114
115
116 (2) INFORMATION FOR SEQ ID NO: 4:
117
118 (i) SEQUENCE CHARACTERISTICS:
119
120 (A) LENGTH: 55
121 (B) TYPE: nucleic acid
122 (C) STRANDEDNESS: single
123 (D) TOPOLOGY: linear
124
125 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
126
127 TAATACGACT CACTATAGGG TCCTCTGATG AGGCCGTTAG GCCGAAACTC CTGCA 55
128
129
130
131
132
133
134 (2) INFORMATION FOR SEQ ID NO: 5:
135
136 (i) SEQUENCE CHARACTERISTICS:
137
138 (A) LENGTH: 34
139 (B) TYPE: nucleic acid
140 (C) STRANDEDNESS: single
141 (D) TOPOLOGY: linear
142
143 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
144
145 GGGUCCUCUG AUGAGGCCGU UAGGCCGAAA CUCC 34
146
147
148
149
150 (2) INFORMATION FOR SEQ ID NO: 6:
151
152 (i) SEQUENCE CHARACTERISTICS:

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153
154 (A) LENGTH: 34
155 (B) TYPE: nucleic acid
156 (C) STRANDEDNESS: single
157 (D) TOPOLOGY: linear
158
159 (ix) FEATURE:
160
161 (D) OTHER INFORMATION: The letter "N" stands for
162 2'-fluorouridine.
163
164 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
165
166 GGGNCCNCNG ANGAGGCCGN NAGGCCGAAA CNCC 34
167
168
169
170 (2) INFORMATION FOR SEQ ID NO: 7:
171
172 (i) SEQUENCE CHARACTERISTICS:
173
174 (A) LENGTH: 34
175 (B) TYPE: nucleic acid
176 (C) STRANDEDNESS: single
177 (D) TOPOLOGY: linear
178
179 (ix) FEATURE:
180
181 (D) OTHER INFORMATION: The letter "N" stands for
182 2'-aminouridine.
183
184 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
185
186 GGGNCCNCNG ANGAGGCCGN NAGGCCGAAA CNCC 34
187
188
189
190 (2) INFORMATION FOR SEQ ID NO: 8:
191
192 (i) SEQUENCE CHARACTERISTICS:
193
194 (A) LENGTH: 12
195 (B) TYPE: nucleic acid
196 (C) STRANDEDNESS: single
197 (D) TOPOLOGY: linear
198
199 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
200
201 GGGAGUCAGG AU 12
202
203
204
205 (2) INFORMATION FOR SEQ ID NO: 9:

RAW SEQUENCE LISTING
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206
207 (i) SEQUENCE CHARACTERISTICS:
208
209 (A) LENGTH: 12
210 (B) TYPE: nucleic acid
211 (C) STRANDEDNESS: single
212 (D) TOPOLOGY: linear
213
214 (ix) FEATURE:
215
216 (D) OTHER INFORMATION: The letter "N" stands for
217 2'-fluorouridine.
218
219 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
220
221 GGGAGNCAGG AN 12
222
223
224
225 (2) INFORMATION FOR SEQ ID NO: 10:
226
227 (i) SEQUENCE CHARACTERISTICS:
228
229 (A) LENGTH: 12
230 (B) TYPE: nucleic acid
231 (C) STRANDEDNESS: single
232 (D) TOPOLOGY: linear
233
234 (ix) FEATURE:
235
236 (D) OTHER INFORMATION: The letter "N" stands for
237 2'-fluorocytidine.
238
239 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
240
241 GGGAGUNAGG AU 12
242
243
244
245
246 (2) INFORMATION FOR SEQ ID NO: 11:
247
248 (i) SEQUENCE CHARACTERISTICS:
249
250 (A) LENGTH: 12
251 (B) TYPE: nucleic acid
252 (C) STRANDEDNESS: single
253 (D) TOPOLOGY: linear
254
255 (ix) FEATURE:
256
257 (D) OTHER INFORMATION: The letter "N" stands for
258 2'-aminouridine.

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/08/936,657*

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TIME: 16:00:14

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